

ACCESSION NR: AP4009457

8/0051/63/015/006/0747/0758

AUTHOR: Krushinskiy, L.L.

TITLE: Contribution to the theory of the line intensity in Raman spectra. 4. Classical model (Expansion of the induced moment in a Fourier series)

SOURCE: Optika i spoktroskopiya, v.15, no.6, 1963, 747-758

TOPIC TAGS: Raman spectrum, Raman scattering, Raman line intensity, oscillator model, induced moment, oscillator damping, scattering center

ABSTRACT: The present paper is a continuation of earlier work by the author (L.L. Krushinskiy, Opt.i.spoktr.14,766,1963), in which there was proposed a classical theory for Raman scattering and an appropriate model for the scattering center. In the present paper the treatment is continued using the formalism of expansion of the induced moments in a Fourier series in which the harmonics have frequencies that are multiples of the frequency of vibration of the nuclei. This avoids some of the difficulties encountered with convergence of the series approximating the dependence of the polarizability on the vibrational coordinates in the original simple theory. The deduced equations represent a complete solution of the problem of the intensity

Card 1/2

AP4009457

of Raman lines with excitation at the peak of the absorption band. The analysis leads to a number of inferences regarding the dependence of Raman lines on the frequency of the exciting light and the damping constant of the electronic oscillator and on the relative intensities of lines of different order. "The author is grateful to P.P.Shorygin for discussion of the work." Orig.art.has: 85 formulas and 3 figures.

ASSOCIATION: none

SUBMITTED: 04Mar63

DATE ACQ: 03Jan64

ENCL: 00

SUB CODE: PH

NR REF Sov: 005

OTHER: 000

Card

SHORYGIN, P.P.; KRUSHINSKIY, L.L.

"LICHTSTREUUNG, FLUORESZENZ UND ERSCHEINUNGEN DES ZWISCHENTYPUS."

Report presented at the Spectroscopicum, 11th Intl. Colloq.,  
Belgrade, Yug - 4 Oct 63.

KRUSHINSKIY, L.L.; SHDRYGIN, P.P.

"SUR LA CORRESPONDENCE DES RESULTATS DE LA THEORIE DE L'EFFET  
RAMAN CLASSIQUE ET QUANTIQUE."

Report presented at the Spectroscopicum, 11th Intl. Colloq., Belgrade, Jug, 30 Sep - 4 Oct 63.

KRUSHINISKIY, L. L.; SHORYGIN, P. P.

I

"Sur la Correspondance des Resultats de la Theorie de L'Effect Raman Classique  
et Quantique."

report submitted to 11th Intl Spectroscopy Colloq, Belgrade, 30 Sep-4 Oct 63.

Inst Organic Chemistry, AS USSR, Moscow.

ACCESSION NR: AP4013327

S/0020/64/154/003/0571/0574

AUTHORS: Shorygin, P.P.; Krushinskiy, L.L.

TITLE: Light scattering, fluorescence, and transient phenomena ✓

SOURCE: AN SSSR. Doklady\*, v. 154, no. 3, 1964, 571-574

TOPIC TAGS: Light scattering, fluorescence, Roman scattering, quantum theory, intermediate optical phenomena

ABSTRACT: The authors point out that the secondary emission can be described either in terms of quantum or classical theory, and in many cases it is advantageous to use a combination of elements of both theories. The applicability of the conceptions depends upon the relationship between the electron oscillator damping  $\gamma$ , the frequency of molecular vibrations  $\omega$ , and the vibration damping  $\Gamma$ . Outside the resonance, the Roman scattering is well described by the classical model in which the molecular polarizability is a linear function of the nuclear coordinates. It is still applicable under resonance conditions if  $\gamma \gg \omega \gg \Gamma$ . When  $\omega \gg \gamma \gg \Gamma$ , the distinction between the free and the forced oscillations becomes

Card 1/2

ACCESSION NR: AP4013327

questionable. Under these conditions, the polarizability conception is no more useful. Instead, a more general "transitional function" can be introduced which is used in radio electronics and in theory of oscillations. This function describes the general features of the spectra. Orig. art. has: 2 figures.

ASSOCIATION: Institut organicheskoy khimii Akademii Nauk SSSR  
(Institute for Organic Chemistry, Academy of Sciences SSSR)

SUBMITTED: 10Jul63

DATE ACQ: 26Feb64

ENCL: 00

SUB CODE: PH

NO REF SOV: 006

OTHER: 000

Card 2/2

KRUSHINSKIY, L.L.; SHORYGIN, P.P.

Theory of line intensities in Raman spectra. Part 5. Opt. i spektr.  
16 no.1:30-39 Ja '64. (MIRA 17:3)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

KRUSHINSKIY, L.L.

Theory of line intensities in Raman spectra. Part 4. Opt. i  
spektr. 15 no.6:747-758 D '63. (MIRA 17:1)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

1973-05- Krushinskij, L. L.; Shorygin, P. P.

JOURNAL OF CENTER FOR QUANTUM THEORY OF CLASSICAL AND QUANTUM SYSTEMS

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826810010-5"

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

41227-65

REF ID: AR5012238

the calculation of the intensities of Raman lines of first and second  
order established

DP, OP

ENCL: 00

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

L 12905-65 EWT(1)/REC(b)-2 IUP(c)/AFWL/ASD(m)-3/SSD/ESD(gs)/ESD(t)  
S/0051/64/017/004/0551/0557

ACQUISITION NR: AP4047176

APPF: Shorygin, P. P.; Krushinskiy, L. L.

TITLE: Interrelation between light scattering and fluorescence,  
and transition phenomena

SOURCE: Optika i spektroskopiya, v. 17, no. 4, 1964, 551-557

INFO TAGS: light scattering, fluorescence, resonance spectrum,  
molecular spectrum, resonance scattering, nonresonant scattering

ABSTRACT: It is shown that the energy distribution in the spectrum  
of radiation of light from molecules can be described  
on the basis of quantum and classical theory. Classical model  
of a light-scattering molecule. The simple classical model is more  
adequate for the excitation of Raman spectra away from resonance  
and it can explain adequately the connection between the intensity  
of the Raman lines and the main parameters of the electronic absorption

Cord 1/3

2-200-06-05

AP4047176

line spectra. It is also suitable under certain conditions, provided the oscillator attenuation constant  $\gamma'$  is much larger than the frequency  $\omega$  of the nuclear oscillations. When  $\gamma \gg \omega \gg \Gamma$  (the half-width of the radiation incident on the molecule) resonance scattering differs from the nonresonance scattering principally in having a larger line intensity. When  $\omega > \gamma > \Gamma$ , it becomes necessary to use the Raman approach. The line intensity distribution comes out as follows: in the case of nonresonance scattering the contours represent resonance fine-structure features, while the line features of a scattering spectrum are determined by the absorption coefficient.

has: 5 formulas and 2 figures.

ASSOCIATION: None

Cord 2/3

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

SEARCHED NR: AP4047176

INDEXED: 01Aug63

ENCL: 00

DP, NP

NR REF Sov. 000

OTHER: 000

Card 3/3

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

L 2127-66 EWT(1)  
ACCESSION NR: AP5025301

UR/0051/65/019/004/0562/0574  
535.375.001.17

AUTHOR: Krushinskiy, L. L.; Shorygin, P. P.

TITLE: The theory of line intensities in Raman spectra

SOURCE: Optika i spektroskopiya, v. 19, no. 4, 1965, 562-574

TOPIC TAGS: Raman scattering, line intensity, harmonic oscillator

ABSTRACT: This paper is the sixth in a series dealing with the Raman scattering theory published by the authors since 1961. A comparison is made between the quantum and classical theories of the line intensities of Raman scattering in different excitation regions. It is shown that away from the resonance the results of the two theories practically coincide. Near the absorption band the quantum treatment leads to a slightly different frequency dependence of the line intensity than does the classical approximation. In the resonance region a satisfactory coincidence of the results occurs only for large attenuation constants (exceeding the half-width of the vibrational structure of the absorption) of the electronic oscillator. For smaller constants, the classical model of the linear oscillator with periodically varying parameters leads to a rough qualitative agreement with the results of quantum mechanical calculations. Some of the conclusions obtained

Card 1/2

L 2127-66

ACCESSION NR: AP5025301

in the present paper are compared with the results of the theory developed by A. C. Albrecht (Journal of chemical physics, v. 34, 1961, p. 1476). It is shown that Albrecht's theory is based on the same physical assumptions as Platckek's polarization theory. Orig. art. has: 34 formulas and 4 figures. [CS]

ASSOCIATION: none

SUBMITTED: 21Jul64

ENCL: 00

SUB CODE: OP

NO REF SOV: 016

OTHER: 005

ATT PRESS: 4111

Card 2/2.

KRUSHINSKI, L. V.

"A Study On The Phenogenetics Of Behaviour Characters In Dogs. Laboratory Of The Dynamics  
Of The Growth Of Organisms (Chief: Academician M. M. Zavadovskii) Institute Of Zoology,  
Moscow State University." (p. 869) by Krushinskii, L. V.

SO: PREDECESSOR OF JOURNAL OF GENERAL BIOLOGY, (Biologicheskii Zhurnal) Vol. VII, 1935 No. 4

KRUSHINSKII, L. V.

"The Thyroid And The Defence Reactions In Dogs Laboratory Of The Dynamics Of The Growth Of Organisms (Chief: "academician N. M. Zavadovskii) Scientific Research Institute Of Zoology, Moscow. State University; And The Scientific Research Laboratory, Dog Breeding, All-Union School Of Service." (p. 1043' by Krushinskii, L. V. of Agric.

SO: PREDECESSOR OF JOURNAL OF GENERAL PHYSIOLOGY, (Biologicheskii Zhurnal) Vol. VII 1938, Nos. 5-6

KRUSHINSKY, L. V.

"The embryonic likeness in the light of the regularities of individual development of the organism." ( p. 362) by Krushinsky, L. V.

30: Advances in Modern Biology (Uspekhi Sovremennoi Biologii)  
Vol. XI, No. 2. 1939

KRUSHINSKY, L. V.

L. V. Krushinsky: "Hereditary "fixation" of individually acquired behaviour by animals, and the origin of instincts." (p. 261)

SO: Journal of General Biology Vol. 5, No. 5, 1974.

KRUSHINSKY, L. V.

"The Genetics and Entomology Barley, 1946, p. 295  
(p.295) by Stockard, Charles R. and collaborators (Philadelphia, 1946)  
Reviewed by L. V. Krushinsky

SC: Advances in Modern Biology (Uspokhi Sovremennoi Biologii) Vol. XXI, No. 2, 1946

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

KRUSHINSKY, L. V.

"The 1st Annual Conference devoted to problems of dynamics of living matter (1946)  
by Krushinsky, L.V.

SO: Advances in Modern Biology (Uspekhi Sovremennoj Biologii) Vol. XVI, No. 2, 1946

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

KRASHINSKY, L. V.

"On the hereditary nature of behaviour characters in animals." (p. 47) by Krashinsky, L. V.

JO: Advances in Modern Biology (Uspokhi Sovremennoi Biologii) Vol. XXII, No. 1, 1946.

Zool. Inst., Moscow State U.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

KRUSHINSKIY, L. V. Dr. Biolog. Sci.

Dissertation: "Analysis of the Behavior of Animals during Ontogenesis."  
Moscow Order of Lenin State U imeni M. V. Lomonosov, 23 Apr 47.

SO: Vechernaya Moskva, Apr, 1947 (Project #17836)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

KUCHINSKIY, L. V.

Mbr., Inst. Zoology, Moscow State University in. Lomon so , -1946-

"The Role Played by Peripheral Impulses in the Sexual Form of Behavior of  
Horses," Dok. AN, 55, No. 5, 1947

KRUSHINSKII, I. V.

"Some stages of integration in the formation of animal behaviour." (p. 737) by  
L. V. Krushinskii (Moscow).

SO: Progress of Contemporary Biology Vol. 26, No. 2 (5) Sept.-Oct. 1978

KRUZHITSKY, L.V.

"New Material In The Study Of Experimental Epilepsy And Of Physiological Mechanism Upon Which It Is Based." (p.108) by L.V. Krushitsky (Moscow)

SO: Progress of Contemporary Biology (Usp. Sovrem. Biol.) Vol. XXVIII, 1949, No. 1  
(4) (July-Aug.)

Zool. Res. Inst., Moscow State U.

A III - 9

B.A.

Possibly caused by hemorrhage in central-nervous system  
after severe or experimentally induced trauma in the rat. V.  
Kryabinikij and L. N. Molodkina (C. R. Acad. Sci. U. S. S. R., 1949,  
62, 258-262).—The described phenomena are of interest because  
of the importance of the nervous trauma as a possible cause of a  
brain hemorrhage and of the possibility of the existence of such  
specific or complex conditions, which can protect the vascular  
system from hemorrhage. II TAUSS

KHUSHINSKIY, L.V.; FLESS, D.A.; MOLODKINA, L.N.

Analysis of physiological processes based on experimental reflex  
epilepsy. Zh. obshch. biol. 11 no.2:104-119 Mr-Ap '50. (CLML 19:2)

1. Of the Scientific-Research Institute of Zoology and of Pushkin  
Zoological Station MDU.

KHUSHINSKIY, L.V., doktor biologicheskikh nauk; MERKUR'Yeva, Ye.K., kandidat  
tekhnicheskikh nauk; IZRAILEVICH, I.Ye., kandidat veterinarnykh nauk; IL'INSKIY, S.A., veterinarnyy vrach; IN'KOV, N.M., veterinarnyy vrach; STOGOV, K.S., veterinarnyy vrach; VANICHENKOV, M.I., veterinarnyy vrach; MAZOVAR, A.P., veterinarnyy vrach; ORLOV, A.P., veterinarnyy vrach; RYLOV, V.V., teterinarnyy vrach; SAKHAROV, N.A., veterinarnyy vrach; DIKAROV, P.I., redaktor; MUSHTAKOVA, L., tekhnicheskiy redaktor

[The working dog; manual for training specialists in raising work dogs] Sluzhebnaia sobaka; rukovodstvo po podgotovke spetsialistov sluzhebnogo sobakovedstva. Moskva, Gos. izd-vo selkhoz. lit-ry, 1952. 616 p.  
(Dogs--Training)

KRUSHINSKIY, L.V.; PUSHKARSKAYA, L.P.; MOLODKINA, L.N.

Experimental investigation of cerebral hemorrhage induced by  
nervous trauma. Vest.Mosk.un. 8 no.12:25-44 D '53. (MLRA 7:2)

1. Kafedra fiziologii vyschey nervnoy deyatel'nosti.  
(Brain--Hemorrhage)

KRUSHINSKIY, L.V.; MOLODKINA, L.N.; PRIGOZHINA, Ye.L.; SHARAD, L.M.

Study of the role of neural trauma on malignant tumors. Zhur.vys.  
verv.deiat. 4 no.6:877-881 N-D '54. (MLRA 8:7)

1. Kafedra vyshey nervnoy deyatel'nosti biologo-pochvennogo fakul'-  
tata Moskovskogo gosudarstvennogo universiteta.  
(NERVOUS SYSTEM, physiology,  
eff. of inj. on exper. cancer)  
(NEOPLASMS, experimental,  
eff. of nervous system inj.)

KRUSHINSKIY, L.V. (Moscow).

Study of the interrelationship of stimulus and inhibition in  
normal and pathologic states by the sound stimulus method.  
Usp.sovr.biol.37 no.1:74-93 Ja-F '54. (MLRA 7:2)  
(Sound--Physiological effect) (Psychology, Physiological)

KRUSHINSKIY, L.V.; SERHYSKIY, M.Ya.; PUSHKARSKAYA, L.P.; FEDOROVA, G.I.

Experimental studys on a new antiepileptic. Zh. vys. nerv. deiat.  
5 no.6;892-900 N-D '55. (MLRA 9:3)

1. Laboratoriya patofiziologii kafedry vyshey nervnoy deyatel'nosti  
Moskovskogo universiteta gosudarstvennogo i Gosudarstvennyy institut  
psichiatrii RFSR.

(ANITCONVULSANTS,  
mixture of barbiturates, bromides, caffeine, calcium  
gluconate & papaverin, eff. in animals.)

VORONIN, Leonid Grigor'yevich; KRUSHINSKIY, L.V., otvetstvennyy red.;  
POMALEW'KAYA, O.T., red.; GUR'YANOV, V.P., tekhn.red.

[Lectures on the comparative physiology of the higher nervous  
activity] Lektsii po srovnitel'noi fiziologii vysshei nervnoi  
deiatel'nosti. [Moskva] Izd-vo Mosk.univ., 1957. 182 p.  
(MIRA 11:1)

(PSYCHOLOGY, PHYSIOLOGICAL)

USSR / Human and Animal Physiology (Normal and Pathological). Nervous S stem. Epilepsy T

Abs Jour: Ref Zhur-Biologiya, No 21, 1958, 97868

Author : Krushinskiy, L. V., Molodkina, L. N.

Inst : Not given

Title : Hemorrhage Into the Spinal Cord as a Result of Experimental Epilepsy

Orig Pub: Uspekhi sovrem. biol., 1957, 44, No 2, 220-231

Abstract: In rats during the period of lactation, the attacks of "zvonkovoy" epilepsy are complicated by fractures of the extremities and paralysis of hind extremities due to bleeding into the spinal cord more frequently than in usual animals; furthermore, the frequency of these complications is

Card 1/3

82

USSR / Human and Animal Physiology (Normal and Pathological). Nervous System. Epilepsy T

Abs Jour: Ref Zhur-Biologiya, No 21, 1958, 97868

directly proportional to the volume of lactation or to the number of baby rats nursed by the female. The addition of powdered shell of fresh-water mussel, containing 98 percent of carbonate and lactate of  $\text{Ca}^{2+}$ , to the diet of the lactating females lowers the frequency of the above-mentioned complications. Frequent fractures of the extremities after apileptiform attacks are connected with demineralization of bones during the period of lactation, and hemorrhages into the spinal cord, having a traumatic origin, with deformation of corresponding parts of the vertebral column during the attack (which is also contributed to by demineralization) occurred. The origin of hemorrhage is also explained by the increase of vascular porosity as a

Card 2/3

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000826810010-5" T  
USSR / Human and Animal Physiology (Normal and Pathological). Nervous System. Epilepsy

Abs Jour: Ref Zhur-Biologiya, No 21, 1958, 97868

consequence of  $\text{Ca}^{2+}$  deficiency and disturbance of hemodynamics during the attack. -- S. A. Dolina

Card 3/3

Abs Jour: Rec<sup>t</sup> Zhur-Biol., No 8, 1958, 36665.

T

thyroid, (0.025-0.1 gm /<sup>r</sup> of thyroidine during a 10-14 day course) death occurred in 8.3%. Following thyro-parathyroidectomy (after 10-14 days) the mortality was 25.7% and in controls (parathyroidectomy) 42.9%.

Card : 2/2

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

BLYAKHMR, L.Ya.; DFTIAT. T.A.; KABAK, Ye.M.; KRUSHINSKIY, L.V.;  
KUDRYASHOV, B.A.

Mikhail Mikhailovich Zavadovskii, obituary. Biul.MOIP. Otd.biol.  
62 no.4:105-109 J1-Ag '57. (MIRA 10:11)  
(ZAVADOVSKII, MIKHAIL MIKHAILOVICH, 1891-1957)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

KRUSHINSKIY, L. V.

"On Certain Experiments in the Study of Conditioned Reflexes in Dogs"  
(14 November 1955); "Supraliminal (Parabiotic) Inhibition" (13 Feb. 1956).

Paper presented at the Seminars on Cybernetics at Moscow University  
during the 1955-56 school year.

So: Problemy Kibernetiki, No. 1, 1958, pp. 265-66

KRUSHINSKIY, L.V.; FLESS, D.A.

Restorative role of protective inhibition in the pathology of  
the nervous system. Trudy Vses. ob-va fiziol., biokhim. i farm.  
4:41-47 '58. (MIRA 14:2)

1. Laboratoriya patologii vysshey nervnoy deyatel'nosti i  
Kafedra fiziologii vysshey nervnoy deyatel'nosti Biologo-  
pochvennogo fakul'teta Moskovskogo gosudarstvennogo universiteta  
(zav. laboratoriyyey doktor biologicheskikh nauk L.V. Krushinskiy,  
(zav. kafedroy prof. L.G. Voronin).  
(INHIBITION) (NERVOUS SYSTEM)

KRUSHINSKIY, L.V.; KORZHOV, V.A.; MOLODKINA, L.N.

Effect of electric shock on pathological states caused by sound stimuli in rats [with summary in English]. Zhur.vys.nerv.deiat. 8 no.1:95-102 Ja-F '58. (MIRA 11:3)

1. Laboratoriya patofisiologii kafedry fiziologii vysshoy nervnoy deyatel'nosti Biologopochvennogo fakul'teta Moskovskogo gosudarstvennogo universiteta.

(NOISE, effects,

exper. neurol. disord., eff. of electric shock in rats (Rus)

(ELECTRICITY, effects,

on exper. neurol. disord. induced by noise (Rus)

KRUSHINSKIY, L.V.

Biological significance of extrapolation reflexes in animals  
[with summary in English]. Zhur. ob. biol. 19 no. 6:457-466  
N.-D '58 (MIRA 11:12)

1. Institut morfologii zhivotnykh imeni A.N. Severtsova AN SSSR.  
(REFLEXES)  
(ANIMALS, HABITS AND BEHAVIOR OF)

AUTHOR: Krushinskiy, L. V. SOV/20-121-4-52/54

TITLE: Extrapolation Reflexes as an Elementary Basis of the Rational Activity of Animals (Ekstrapolyatsionnyye refleksy kak elementarnaya osnova rassudochnoy deyatel'nosti u zhivotnykh)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 4, pp. 762-765 (USSR)

ABSTRACT: Many authors (Refs 1-4) found out that some reactions in the behaviour of animals are based upon actions dictated by reason or intellect. These findings are, however, bound to remain solitary observations until the criteria which determine this way of behaviour will be found and until their elementary basis will be clearly outlined. Only then it will be possible to carry out physiological investigations of this type of behaviour. The main theorem which the author uses as basis is that the entire cerebral activity is reflectorial. The author is of the opinion that the main criterion of actions dictated by reason is the ability of foreseeing elementary future events the cause of which is within the physiological capacity of perception of the corresponding individual, which is subjected to frequent changes of environment. The elementary basis of

Card 1/4

SOV/20-121-4-52/54

Extrapolation Reflexes as an Elementary Basis of the Rational Activity  
of Animals

actions dictated by reason is the capacity of extrapolation, e. g. to foresee the regularity of the change of a certain quantity in the future based upon the knowledge of the past. Extrapolation is, as it was proved in the author's experiments a perfectly regular response of the nervous system to a regular change of conditions between the stimuli and thus must be regarded as a reflex. One of the most simple cases of extrapolation is to foresee the movement of a point on a straight line after this point ceased to be perceived by the receptors, in consequence of a certain disturbance. Thus the animal had to find in the course of these experiments: 1) The change of position (movement) of the point (stimulus) in its relation to the resting points of space. 2) To find out an unknown quantity (the direction of movement of the stimulus after an obstacle had eliminated the possibility of a perception) after a change of this relation. Tests carried out with pigeons, ducks, hens, corvine birds (crows, magpies, rooks) and rabbits are mentioned. The feed was on a moving platform and covered by a lid. In some cases the platform stopped, in others it continued

Card 2/4

SOV/20-121-4 52/14

**Extrapolation Reflexes as an Elementary Basis of the Rational Activity  
of Animals**

its movement. The pigeons showed no reaction to the platform no matter whether it moved on or stopped. The ducks looked for the feed for a time up to 70 seconds when the platform had already stopped. In the case the platform moved on they showed no reaction; the hens looked for the feed around the platform 33,4 seconds on average; only some hens continued to look for the feed for a few steps when the platform had started moving again. The corvine birds looked for the feed around the lid no matter whether the platform stood still or not. Rabbits obstinately looked for the feed around the standing or moving platform. The main difference between the investigated types of animals is the varying ability of remembering traces of stimuli with a rapid effect - a varying "operative" memory. Based upon cytoarchitectonical investigations (Ref 5) it may be believed that the morphological foundation of this "operative" memory is a system of closed, circular return components between the neurons. This system is particularly well represented by star-shaped neurons and it developed progressively in higher

Card 3/4

307/20-121-4-52/4

Extrapolation Reflexes as an Elementary Basis of the Rational Activity  
of Animals

vertebrates (Ref 6). As a result of the natural breeding selection inborn (cytoarchitectonical) mechanisms were formed which guarantee the capacity of maintaining the foci of stimulation for ever.

There are 7 references, 5 of which are Soviet.

PRESENTED: April 21, 1958, by I. I. Shmal'gauzen, Member, Academy of Sciences, USSR

SUBMITTED: April 19, 1958

Card 4/4

915) PHAUS & DATA EXPLOITATION SCV/3176  
Problemy Kibernetiki, Typ. 2 [Problems of Cybernetics, No. 2].  
Moscow, Fizmatgiz, 1959. 323 p. Errata slip inserted. 13,000 copies printed.

Ed.: A. A. Lepashov; Compilers-Editors: O. S. Lupanov, N. V. Tablonov, and Yu. I. Panov; Eds.: B. M. Pilchuk, S. V. Tablonov, and M. L. Smolyanskiy; Tech. Ed.: A. A. Kondratenko, and M. L. Smolyanskiy; Tech. Ed.: S. P. Arshilov.

PURPOSE: The purpose of this collection of articles is to organize scientific papers on cybernetics and to unite the efforts and interests of Soviet scientists working in this field.

CONTENTS: This is the second volume of "Problemy Kibernetiki", dealing with problems of biology, mathematics and engineering, as they relate to cybernetics. The first volume, which appeared in 1958, considered problems of programmed machine translation and computer design. Future volumes proposed to include a still greater number of subjects related to cybernetics. The editors list 5 recent Soviet books (including 2 translations) dealing with cybernetics. They thank the following persons for their help in preparing the book for publication: G. V. Vasil'evskaya, T. I. Gavrilova, A. A. Muchnik, B. I. Faibisoff, M. I. Feinlin, and V. S. Shatrunov. References follow each article.

#### PART IV. CONTROL SYSTEMS AND COMPUTERS

Krasulin, A.N., and V.F. Shurman (Moscow). Operational Catalogue 191  
Tube Storage Device 203

The authors describe the principle of operation of the storage device for the Soviet computer "Serebryl'ye" which consists of a cathode-ray tube of the "Potentialiscope" type, with a storage capacity of 2048 words of 13 bits. No references are given.

Dzhigadze, M.D., V.S. Gorchinskii, A.Ye. Kostrikina, and V.S. Yashchenko (Kiev). On the Application of Electromechanical Systems of Control 203

The article deals with the utilization of biological principles in the operation of technical devices. It also describes the principle of operation and design of a model of a servo-drive built for this purpose. There are 12 references.

5 Soviet (1 translation), 2 German, and 5 English.

#### PART V. CONTROL PROCESSES IN LIVING ORGANISMS

Zubov, D.N., and N.A. Berezin (Berlin). On Statisticity and Asymptotic Principle in Biology 213  
On the article deals with the possibility of the activity of the nervous system in animals. The article, according to the editor, is of great interest for the study of cybernetic processes or life biological storage from generation to generation and the physical processes of mathematical investigation in that field. There are 52 references, 16 Soviet (5 translation), 18 English, and 4 French.

Zubov, D.N. (Berlin). Investigation of Extrapolative Methods in Biological Systems 229  
The article deals with the possibility of the activity of the nervous system in animals. The article, according to the editor, is of great interest for the study of cybernetic processes or life biological storage from generation to generation and the physical processes of mathematical investigation in that field. There are 52 references, 16 Soviet (5 translation), 18 English, and 4 French.

Zubov, D.N. (Berlin). Mathematical Models of Biological Systems 233  
The article deals with the possibility of the activity of the nervous system in animals. The article, according to the editor, is of great interest for the study of cybernetic processes or life biological storage from generation to generation and the physical processes of mathematical investigation in that field. There are 52 references, 16 Soviet (5 translation), 18 English, and 4 French.

Zubov, D.N., and G.V. Vasil'evskaya (Moscow). Experimental Programming Algorithms for the Machine Translation of Mathematical Texts from French into Russian on the Stevka Computer 263  
The article concerns problems of circulation of mathematical texts from French into Russian developed by O.S. Kudriashov and I.I. Mel'nikov. These algorithms assume the existence of a special vocabulary which contains not words but entire sentences. The author gives examples of translations obtained and the sequence of operations which indicate the methods used in eliminating errors. No references are given.

Zubov, D.N. (Moscow). Operational Description of Translation Algorithms and Their Application in the Process of Their Programming 269  
The mathematicians of the Soviet Union have developed a programming technique of operational programming, based on an external notation that is written largely across the page. This operational programme was tested on translation from French into Russian. The author describes the class of vehicles operating word. The sequence of operations will indicate their sequence of performance. The following types of operators are used: conditional, repeating, and neutral. English, French, Italian, and Spanish are used as the method of control. The author explains the use of the method of control in programs in French. No references are given.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

KRUSHINSKIY, L.V.; PARFENOV, G.P.

Extrapolation reflexes in ducks. Ornitologija no.2:59-62 '59.  
(MIRA 14:7)  
(Ducks) (Birds--Behavior)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

KRUSHINSKIY, L.V.; MOLODKINA, L.N.; LEVITINA, N.A.

Time and conditions for the restoration of an exhausted inhibition process during the activity of sound stimuli. Zhur.vys.nerv.deiat. 9 no.4:566-572 Jl-Ag '59. (MIRA 12:12)

1. Laboratoriya patofiziologii kafedry fiziologii vysshey nervnoy deyatel'nosti Moskovskogo gosudarstvennogo universiteta.  
(REFLEX CONDITIONED)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

KHUSHINSKIY, Leonid Viktorovich; FLESS, D.A., otv.red.; POMALEH'KAYA,  
O.T., red.; GEORGIYEVA, G.I., tekhn.red.

[Development of animal behavior under normal and pathological  
conditions] Formirovanie povedeniia zhivotnykh v norme i pato-  
logii. Moskva, Izd-vo Mosk.univ., 1960, 263 p.  
(Animals, Habits and behavior of)

(MIHA 13:9)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

KRUSHINSKIY, L.V.; STESHENKO, A.P.; MOLOIKINA, L.N.

The protective effect of carbon dioxide inhalation on the development  
of hemorrhagic shock conditions. Nauch.dokl.vys.shkoly; biol.nauki  
no.2:73-77 '60. (MIRA 13:4)

1. Rekomendovana kafedroy fiziologii vysshey nervnoy deyatel'nosti  
Moskovskogo gosduarstvennogo universiteta im. M.V. Lomonosova.  
(CARBON DIOXIDE--THERAPEUTIC USE) (SHOCK)

KRUSHINSKIY, L.V.

Study of bird behavior. Ornitologija no.3:17-26 '60.  
(MIRA 14:6)  
(Birds--Behavior)

KRUSHINSKIY, L.V.; MOLODKINA, L.N.

New experimental model of chronic disease of the nervous system.  
Zhur. vys. nerv. deiat. 10 no. 5:779-785 S-O '60. (MIRA 13:12)

1. Laboratoriya patofiziologii kafedry fisiologii vysshey nervnoy  
deyatelnosti Moskovskogo gosudarstvennogo universiteta.  
(MOVEMENT DISORDERS)

KRUSHINSKIY, L.V.; FLESS, D.A.; RYLOV, V.V.

Dog scent and its role in trailing. Biul. MOIP. Otd. biol. 65 no.1:  
127-134 Ja-F '60. (MIRA 13:7)  
(DOGS) (SMELL) (TRACKING AND TRAILING)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

KRUSHINSKIY, L. V.

International symposium on reflex mechanisms in the pathogenesis  
of epilepsy. Zhur. nevr. i psikh. 61 no.9:1421-1424 '61.

(MIRA 14:9)

(EPILEPSY) (REFLEXES)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

SAVINOV, O.V., KRUSHINSKIY, L.V., FLESS, D.A., VELERSHTEIN, R.A.

"Experience in mathematical modelling of the relationship between  
the processes of excitation and inhibition."

Report submitted, but not presented at the 22nd International  
Congress of Physiological Sciences.  
Leiden, the Netherlands      10-17 Sep 1962

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

KRUSHINSKIY, L.V.

Development of behavior in animals.

Report to be submitted for the 16th International "oology Congress  
Washington, D.C., 20-27 Aug 63

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

KRUSHINSKIY, L.V.; MOLOOKINA, I.N.; POROVA, N.P.

Interrelation between extrapolation and conditioned reflexes  
in birds. Ornitologija no.6:408-417 '63. (MIRA 17:6)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

ACCESSION NR: AT4041982

S/2582/64/000/011/0011/0024

AUTHOR: Savinov, G. V. (Deceased) (Moscow); Krushinskiy, L. V. (Moscow); Fless, D. A. (Moscow); Velershstyn, R. A. (Moscow)

TITLE: The study of relations between the processes of stimulation and inhibition in a nervous system by means of mathematical simulation

SOURCE: Problemy kibernetiki, no. 11, 1964, 11-24

TOPIC TAGS: stimulation process, inhibition process, parabiotic phase, mathematical model, protective inhibition, nonlinear amplifier, nervous system

ABSTRACT: This article deals with the use of mathematical simulation to study the relationships between the processes of stimulation and inhibition in the nervous system. On the basis of work by N. Ye. Vvedenskiy, I. P. Pavlov, L. V. Krushinskiy, D. A. Fless, and others on the developing of parabiotic phases and the detailed analysis of parabiotic phases in rats, hypotheses are presented concerning the nature of the relationships between the stimulation and inhibition

Card 1/3

ACCESSION NR: AT4041982

processes. The authors consider that development of parabiotic phases in rats is the result of increased stimulation induced by the action of an acoustical stimulant which produces the process of protective inhibition. Curves are presented which characterize the variation of the stimulation and inhibition process, as well as the interaction of these processes. For the verification a mathematical model is constructed for verifying the relationships described. The block diagram of the model consists of two circuits: the first, in which the stimulant (input signal) causes the reaction (output signal), contains an amplifier with a nonlinear characteristic indicating the limiting part of the inhibition; the second is a feedback circuit in which the stimulation signal is amplified. The interaction of these circuits explains the relationships described above. Graphs are used to portray the performance of the amplifier with nonlinear characteristics for various phases. The circuits comprising the model are analogous to the circuits in a nervous system. [Abstractor's note: This article is a longer version of the article published by the same authors in: Biologicheskiye aspekty kibernetiki; sbornik rabot. Ed. by A. M. Kuzin and others. Moscow, Izd-vo AN SSSR, 1962, 92-103.] Orig. art. has: 16 figures.

Card 2/3

ACCESSION NR: AT4041982

ASSOCIATION: Nauchny'y sovet po kompleksnoy probleme Kibernetika Akademii nauk  
SSSR(Scientific Council on Complex Problems of Cybernetics, Academy of Sciences, SSSR)  
SUBMITTED: 26May62 ATD PRESS: 3075 ENCL: 00

SUB CODE: LS,MA

NO REP Sov: 012

OTHER: 002

Card 3/3

BRODYANSKIY, V.M., kand.tekhn.nauk; BAZHENOV, M.I., inzh.; VOLKOV, P.V.,  
inzh.; KRUSHINSKIY, M.M., inzh.; RERIKH, V.K., inzh.

Drying of oxygen by cooling. Prom.energ. 17 no.4:21-25 Ap  
'62. (MIRA 15:4)  
(Oxygen—Drying)

TSEREVITINOV, B.F.; IGNATOV, Yu.V.; IGNATENKO, V.B.; KRUSHINSKIY, V.V.

Heat insulating properties of fur hats. Kosh.-obuv.prom. 4  
no.12:19-22 D '62. (MIRA 16:1)  
(Clothing, Cold weather—Testing)

KRUSHKAL', S.L.

Mappings, quasi-conformal in the mean. Dokl. AN SSSR 157  
no.3:517-519 J1 '64. (MIRA 17:7)

I. Institut matematiki Sibirskogo otdeleniya AN SSSR. Pred-  
stavлено академиком M.A. Lavrent'yevym.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

KRUSHKAL', S.L.

Variation of a quasi-conformal mapping of a circular ring. Sib.  
mat. zhur. 5 no.1:236-239 Ja-F '64. (MIRA 17:7)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

ACC NR: AP7001889

AUTHOR: Krushkal', S. L.

ORG: Mathematics Institute, Siberian Branch, Academy of Sciences SSSR (Institut matematiki Sibirskogo otdeleniya Akademii nauk SSSR)

TITLE: Theory of external problems for quasiconformal mappings of closed Riemannian surfaces

SOURCE CODE: UR/0020/66/171/004/0784/0787

SOURCE: AN SSSR. Doklady, v. 171, no. 4, 1966, 784-787

TOPIC TAGS: conformal mapping, Riemann space, mathematic space, function analysis

ABSTRACT: The author proposes a method which makes it possible to solve a broad class of extremal problems for quasiconformal mapping. The following general problem connecting O. Teichmüller's problem (Abh. Preuss. Akad. Wiss., Math.-Naturwiss. Kl., 22, 1 (1940)) with the extremal problem studied by P. P. Belinskiy (Sibirsk. matem. zhurn., 1, No. 3, 303, 1960) was studied: in a given homotopical class of a quasiconformal homeomorphisms  $w = f(z)$  of closed Riemannian surface  $S$  of the kind  $K[f] < q$  find the maximum of real functional  $F[f] = F(w_1, \dots, w_n)$ ,  $w_j = f(z_j) = u_j + iv_j$ , where  $F$  is the function on surface  $S'$  (it is assumed that homeomorphisms  $f$  maintain their orientation). This class of mappings is designated by  $Q(a, q)$  and is assumed not to be empty. Let  $S$ in class reached for UDC: 517.54  
mappings  $w = f(z)$  or  $K[f] < q$ . Paper presented to OKB

APPROVED FOR RELEASE DATE: 04Feb66/ 04Feb66/ 04Feb66/ APPROVED FOR RELEASE DATE: 06/14/2000

CIA-RDP86-00513R000826810010-5

SUB CODE:

Card 2/2

ACCESSION NR: AP4043536

S/0020/64/157/004/0781/0783

AUTHOR: Krushkal', S. L.

TITLE: Variational method in the theory of quasiconformal mappings  
of closed Riemann surfaces

SOURCE: AN SSSR. Doklady\*, v. 157, no. 4, 1964, 781-783

TOPIC TAGS: conformal transformation, variational calculus,  
Riemannian space

ABSTRACT: An extension of the method of P. P. Belinskiy (Sibirsk.  
matem. zhurn. v. 1, no. 3, 303, 1960) is used to derive variational  
formulas for closed Riemann surfaces. These formulas are then used  
to solve extremal problems of quasiconformal mapping and to a local  
study of the Teichmuller space (O. Teichmuller, Abh. Preuss. Akad.  
Wiss. Math.-Naturw. Kl. v. 22, 1, 1939). If  $S$  is a closed Riemann  
surface of the kind  $g > 1$ , conformally equivalent to  $\Pi = U/\Gamma$ , where

Card 1/2

ACCESSION NR: AP4043536

U is the circle  $|z| < 1$  and  $\Gamma$  is a Fuchs group of bilinear transformations of U into itself, then the variation of the surface S is defined as a function  $w = f(z)$  mapping  $\Pi$  on some polygon  $U/\Gamma^*$  (where  $\Gamma^*$  is a Fuchs group). Several theorems are proved concerning the mapping  $f(z)$  and its inverse  $f^{-1}(w)$ . This report was presented by M. A. Lavrent'yev. Orig. art. has: 3 formulas.

ASSOCIATION: Institut matematiki Sibirskogo otdeleniya Akademii nauk SSSR (Institute of Mathematics, Siberian Department, Academy of Sciences SSSR)

SUBMITTED: 13Mar64

ENCL: 00

SUB CODE: MA

NR REF Sov: 003

OTHER: 005

Card 2/2

GULIKAM, S.L.

Absolute continuity and differentiability of certain classes of  
mappings of multidimensional regions. Sib. mat. zher., 6 no.3:692..  
69c My-5a '65. (MIRA 18:8)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

MALAMOV, E.; KRUSHKOV, Iv., kruzhochnik

Ballistocardiographic changes during the treatment of hypertension  
with hypotensive drugs. Suvrem med., Sofia no.11:17-26 '60.

1. Iz Katedrata po bolнична терапия при ВМИ, София (Руков. на  
кадрата проф. Ал. Пухлев)  
(ANTIHYPERTENSIVE AGENTS ther)  
(BALLISTOCARDIOGRAPHY)

IARUKOV, L.; KRUSHKOV, Iv.; GIUROVSKI, S.

Experimental and clinico-experimental studies on the effect of analgin in labor. Akush. ginek (Sofiiia) 2 no.6:1-7 '63.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

KHADZHIKOACHEVA, Zh.; KRUSHKOV, Iv.

Silicones and their use in medicine. Suvr. med. 13 no.9:35-39  
'62.

(SILICONES)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

BULGARIA

KRUSHKOV, Iv.; [Affiliation not given.]

"Therapeutic Uses of Some Enzymes."

Sofia, Suvremenna Meditsina, Vol 14, No 6, 1963; pp 46-51.

Abstract : Primarily a review of Western clinical publications on trypsin and chymotrypsin, streptokinase and streptodornase, hyaluronidase, papain, cocarboxylase, amylase, elastase, penicillinase, buccal amylase, lipoxydase, hepatocatalase and a few other enzymes. Four Soviet and 30 Western ref's.

1/1

8

KRUSHKOV, Iv.

Pharmacology of some new hypotensive drugs. Suvar. med.  
(Sofia) 15 no. 5:46-54 '64

KARUKOV, L.; KRUISHKOV, Iv.; OBUKHOVSKI, S.; NITOV, I.

Experimental and clinical studies on the effect of some psycholeptic drugs on dynamics of labor and pain. Akush.  
ginek. (Sofia) 3 no.4:19-32 '64

KRUSHKOV, Iv.

Pharmacological study of some pyridine derivatives. II. Nauch. tr.  
vissh. med. inst. Sofia 43 no. 5:55-61 '64

1. Vysshiiy meditsinskiy institut, kafedra farmakologii (sav. - prof.  
D. Paskov).

KHUSHUKOV, Iv.

Some problems of pharmacodynamics of salicylates. Suvr.  
med. (Sofiia) 16 no.10:625-631 '65.

1. Kafedra po farmakologiiia, Vissh meditsinski institut,  
Sofiia (rukoviditel - prof. D. Paskov).

KRUSHKOV, N.

KRUSHKOV, N. High production of cows after the first calf. p. 25.

VOL. 11, no. 8, Aug. 1956  
KOOP-ATIVNO ZEMEDELIE  
AGRICULTURE  
Sofia, Bulgaria

SO: East European Accession, Vol. 6, No. 3, March 1957

KRUSHKOV, V. A.

✓ 3676. Krushkov, W. A., Calculation of dynamic stresses  
and strains in conveyors with chain elements (in German), Mas-  
chinendatech. 3, 9, 475-480, Sept. 1954.  
Translation from Vestnik Mashin. no. 10, 12-18, 1953.

gfp  
MMT

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

OGANOV, P.I., inzh.; LYUBIN, B.Sh., inzh.; KATSENELENBOGEN, B.V., inzh.;  
KRUSHKOV, V.N., inzh.

Modernization of Shukhov-Berlin system boilers operating on liquid  
and gaseous fuels. Prom. energ. 17 no.8:13-20 Ag '62. (MIRA 16:4)  
(Boilers)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

PRAMATAROV, Iv.; KRUSHKOVA, Al.; PETROVA, P.

On changes in the blood sugar level after glucose loading in silicosis patients from the Rhodopes mining basin. Suvrem med., Sofia no.9: 96-98 '60.

1. Iz Mediko-sanitarnata chast v Madan (Gl. lekar I. Ezhdik)  
(GLUCOSE TOLERANCE TEST)  
(SILICOSIS blood)

PRAMATAROV, Iv.; KRUSHKOVA, Al.

On blood proteins in silicosis and silicotuberculosis (differential diagnostic and prognostic indices). Suvrem med., Sofia no.2:55-62 '61.

1. Mediko-sanitarna chast, Madan (Gl. lekar D. Kabasanov.)

(BLOOD PROTEINS chem) (SILICOSIS blood)  
(TUBERCULOSIS PULMONARY blood)

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

Krivchenko, Alexei S.

Crossbreeding in industrial poultry farming Moskva, Akad. nauk SSSR, 1954. 69 p.  
(Nauchno-populiarnaia seriia)

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

14(0)

SOV/92-58-11-23/36

AUTHOR: Krushvits, I.I., Engineer Economist

TITLE: New Setup and Old Regulations (Poryadki novyye, a instruktsii staryye)

PERIODICAL: Neftyanik, 1958, Nr 11, p 24 (USSR)

ABSTRACT: The author states that six years ago the Ministry of Petroleum Industry approved a very useful regulation concerning the cost accounting principle of an oilfield. According to this regulation, all units of an oilfield have to operate on the basis of the self-supporting principle. As a result of this regulation, costs of petroleum and gas production dropped. In issuing this regulation its authors assumed that the oilfield is an independent enterprise. However, due to the subsequent reorganization of the petroleum industry the situation changed, and the oilfield became a unit of the Petroleum Production Administration. This reorganization created great confusion, partly due to the fact that Petroleum

Card 1/2

14(0)

SOV/92-58-11-23/36

New Setup and Old Regulations

Production Administrations were authorized to allocate and re-allocate various expenditures in the cost accounts of oilfields and their units. The author cites a few examples of the confusion created, and calls for measures to remedy the present situation. In his opinion it is desirable to arrange a conference of experts, which would study the problem and issue new regulations on the cost accounting principles to be enforced in oilfields.

ASSOCIATION: Krasnooktyabr'skiy promysel No 2 (The No 2 Oilfield of the Krasno-oktyabr'skiy Organization)

Card 2/2

KRUSIC, B.

\*Manual and exercise book on mathematics for engineering and training schools. Vol.3. Reviewed by B.Krusic. Stroj vest & no.1/2:33 Ap '62.

"APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5

KRUSIC, B.

"Operational calculus applied to technical problems" by J.P.  
Schouten. Reviewed by B. Krusic. Stroj vest 8 no.4/5:118 0 '62.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000826810010-5"

CERNIGOJ, B.; SELJAK, Z.; NOVAK, P.; PUST, J.; MUREN, H.; OPREŠNIK, M.;  
KUHELIJ, A.; HLEBANJA, J.; KRUSIC, B.; POVSE, R.; KRAUT, B.;  
PROSENC, V.; PRELOG, E.

Book reviews. Stroj vest 10 no.6:176-182 D '64.

KRUSIC, Valter, dr.

The pedontologist's view of the contact points. Zobosdrav. vest.,  
Ljubljana 9 no.1-2:12-15 1954.  
(THESE, DEMONSTROUS  
\*contact points)

KRUSIC, Valter, dr.

Pedontological problems in Slovenia. Zobozdrav. vest., Ljubljana  
9 no. 4-6:136-141 1954.

1. Referat na strokovnem sestanku Drustva zobozdravstvenih delavcev  
Slovenije septembra 1954.  
(**PEDODONTIA**  
in Jugosl., Slovenia)

KRUSIC, Valter, asist. dr.

Pedodontia and prosthetics. Zobosdrav, vest., Ljubljana 9 no.4-6:  
198-207 1954.

1. Referat na strokovnem sestanku Drustva zdravstvenih delavcev  
Slovenije septembra 1954.

(CLINIC PALATE

obturator & prosth. in inf. & child.)

(DENTAL PROSTHESIS

in cleft palate in child.)

KRUSIC, Valter Dr.

Clinical picture and treatment of pulp diseases in deciduous teeth .  
Zobosdrav.vest., Ljubljana 10 no.3-4:96-103 1955.

(THETH, DECIDOUS,

pulp dis. in, sympt. & ther.(S1))

(DENTAL PULP, dis.

in deciduous teeth, sympt. & ther.(S1))

**PAPOUSEK, D.; KRUSINA, J.; KUCIREK, J.**

Molecular complexes with hydrogen bonds. II. Stability and composition of some molecular complexes of alcohols and ethers. In German. Coll.Cz.Chem. 24 no.9:2967-2974 S '59. (EHAJ 9:5)

I. Institut fur theoretische und physikalische Chemie, Naturwissenschaftliche Fakultat und Physikalischanalytisches Institut, Pharmazeutische Fakultat, Masarykuniversitat, Brno.

(Hydrogen) (Alcohols) (Ethers)

KAREL, I.; HODER, J.; KRAUS, H.; KREJCI, L.; KRUSINA, L.

Tonometry during general anesthesia with endotracheal intubation. Cas. lek. cesk. 104 no.25:676-682 25 Je'95.

I. II. ocní klinika fakulty všeobecného lekarství Karlovy University v Praze (prednosta: akademik J. Kurz) a Oddělení pro anestezii Krajského ústavu národního zdraví, Středočeského kraje (vedoucí: MUDr. J. Hoder).

KRUSINA,  
CZECHOSLOVAKIA

BARTOS, J., POKORNÝ, J., ECKERT, V., KRUSINA, L., and TEISINGER, P., with technical cooperation of LUKASOVÁ, I., SLIVOVA, L., MATOUŠOVIC, J., GRUMT, J., DYLEVSKY, J., and DUBSKY, J., First Clinic of Surgery (I. chirurgicka klinika), Faculty of General Medicine (Fakulta všeobecného lekarství), Charles University, Prague, Prof. Dr. PAVROVSKY, director; Fourth Clinic of Internal Medicine (IV. interní klinika), Faculty of Internal Medicine, Charles University, Prague, Prof. Dr. M. FUCÍK, director; Radiological Clinic (Radiologická klinika), Faculty of General Medicine, Charles University, Prague, Prof. Dr. V. SVAB, director, [individual affiliations cannot be determined].

"Direct Revascularization of Myocardium Following an Experimental Infarct in Dogs"

Prague, Casopis Lekaru Českých, Vol CII, No 26, 28 June 63,  
p 725.

Abstract: Experiments lead to the following conclusions:

1. Anastomosis between the system and coronary artery is feasible even with a pulsating heart. 2. Infarct-like changes were observed following the tying of r. interventricularis. A partial adjustment took place following anastomosis. 3. Microscopic examination showed ischemic deposits in dogs with anastomosis  
1/2

CZECHOSLOVAKIA

Prague, Casopis Lekaru Ceskych, Vol CII, no 26, 26 June 63,  
p 725.

in contrast to large infarcts in dogs without anastomosis.  
4. A sudden inflow of blood into the ischemic deposit may be  
accompanied by an immediate fibrillation of chambers. It can  
be prevented by a temporary interruption of the blood flow  
by means of anastomosis and its slow and interrupted liberation.

2/2

- 7 -

BARTOS, J.; POKORNY, J.; ECKERT, V.; KRUSINA, L.; TEISINGER, P.;  
Technicka spoluprace: LUKASOVA, I.; SLIVOVA, L.; MATOUSOVIC, J.;  
GRUNT, J.; DYLEVSKY, J.; DUBSKY, J.

Direct revascularization of the myocardium after experimental  
infarction in dogs. Cas. lek. cesk. 102 no.26:725 28 Je '63.

1. I chirurgicka klinika fakulty vseobecneho lekarstvi KU v  
Praze, prednosta prof. dr. J. Pavrovsky IV interni klinika  
fakulty vseobecneho lekarstvi KU v Praze, prednosta prof. dr.  
M. Fucik Radiologiccka klinika fakulty vseobecneho lekarstvi  
KU v Praze, prednosta prof. dr. V. Svab.

(MYOCARDIAL INFARCT) (VASCULAR SURGERY)  
(CORONARY VESSELS) (ELECTROCARDIOGRAPHY)  
(BLOOD PRESSURE) (THORACIC ARTERIES)

KRUSIKA-CARY, L.

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